



上海源叶生物科技有限公司
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产品名称: **17 amino acid peptide**
产品别名: 孤啡肽; Nociceptin; Orphanin FQ

生物活性:						
Description		Nociceptin, a heptadecapeptide, is the endogenous ligand of the nociceptin receptor, acting as a potent anti-analgesic.				
In Vitro		Nociceptin (1 µg/mL) significantly prevents LPS (10 ng/mL)-stimulated cell migration whereas it is ineffective when added alone. Nociceptin (1 nM-10 µM) elicits a concentration-dependent blockade of LPS-mediated cell migration, with a maximal effect at 1 and 10 µM. Nociceptin counteracts LPS-induced elevation of IL-1β mRNA levels. Nociceptin (1 µM) and NNC 55-0396 induce apoptotic cell death in U87 cells. Nociceptin (1 µM) counteracts LPS-induced [Ca²⁺]i increase in U87 cells via β-arrestin 2. Nociceptin counteracts the LPS-induced phosphorylation of PKC and ERK in U87 cells. Nociceptin inhibits the LPS-mediated transcriptional activation of NF-kB and AP-1 reporter genes ^[1] .				
Solvent&Solubility		In Vitro: H₂O : ≥ 50 mg/mL (27.64 mM) * "≥" means soluble, but saturation unknown.				
		Preparing Stock Solutions	Solvent / Mass / Concentration			
				1 mg	5 mg	10 mg
			1 mM	0.5528 mL	2.7639 mL	5.5278 mL
			5 mM	0.1106 mL	0.5528 mL	1.1056 mL
		10 mM	0.0553 mL	0.2764 mL	0.5528 mL	
*请根据产品在不同溶剂中的溶解度选择合适的溶剂配制储备液; 一旦配成溶液, 请分装保存, 避免反复冻融造成的产品失效。 储备液的保存方式和期限 -80°C, 6 months; -20°C, 1 month。 -80°C 储存时, 请在 6 个月内使用, -20°C 储存时, 请在 1 个月内使用。						
References		[1]. Bedini A, et al. Nociceptin/orphanin FQ antagonizes lipopolysaccharide-stimulated proliferation, migration and inflammatory signaling in human glioblastoma U87 cells. Biochem Pharmacol. 2017 Sep 15;140:89-104.				
实验参考:						
Cell Assay		Cell proliferation assay is carried out in the assay. U87 cells are plated on 12-well plate and treated for 24 h maintained in cell culture medium containing 10% fetal bovine serum. Five hours before the end of the treatments, [methyl-³H] Thymidine (50 nM final concentration) is added to serum-free cell culture medium and the plate is incubated at 37°C. Thereafter, medium is removed and cells are washed twice with PBS. 200 µL of PBS is added to each well, the cells are scraped off and centrifuged at 13,000g for 3 min at 4°C; supernatants are then discarded, pellets resuspended in 500 µL of cold trichloroacetic acid (10% w/v), incubated on ice for 20 min and centrifuged at 13,000g for 3 min at 4°C. The obtained supernatant is then discarded, pellet suspended in 500 µL of cold methanol and centrifuged at 3 min for 13,000g at 4°C. After that, the pellet is suspended in 200 µL of NaOH 1 N and heated at 55°C for 10 min. Samples are then neutralized with 200 µL of HCl 1 N and 350 µL of the labeled DNA incubated in counting vials with 4 mL of Filter Count scintillation liquid.				



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	Vials are vortexed and incubated overnight at room temperature and the radioactivity is determined by liquid scintillation spectrometry.
References	[1]. Bedini A, et al. Nociceptin/orphanin FQ antagonizes lipopolysaccharide-stimulated proliferation, migration and inflammatory signaling in human glioblastoma U87 cells. Biochem Pharmacol. 2017 Sep 15;140:89-104.



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